

A world map with a dense network of blue and white lines overlaid, representing oceanographic data or survey tracks. The map shows the continents of North America, South America, and parts of Europe and Africa. Labels for 'NORTH AMERICA', 'SOUTH AMERICA', 'NORTH PACIFIC OCEAN', and 'SOUTH PACIFIC OCEAN' are visible. A semi-transparent white box is centered over the map, containing the title 'Seabed 2030'.

Seabed 2030

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Seabed 2030



Seabed 2030 is a global initiative to cooperatively work towards creating a high resolution complete map of the world's ocean floor by 2030.



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission

-The **Nippon Foundation** is a private Japanese-based, non-profit grant-making organization with a mission based around philanthropic activities to pursue global maritime development and assistance for humanitarian work.

-The **General Bathymetric Chart of the Oceans (GEBCO)** organization operates under the joint auspices of the International Hydrographic Organization (IHO) and the Intergovernmental Oceanographic Commission (IOC) of UNESCO



Empower the world to *make policy decisions, use the ocean sustainably*, and *undertake scientific research* that is informed by a detailed understanding of the global ocean floor.

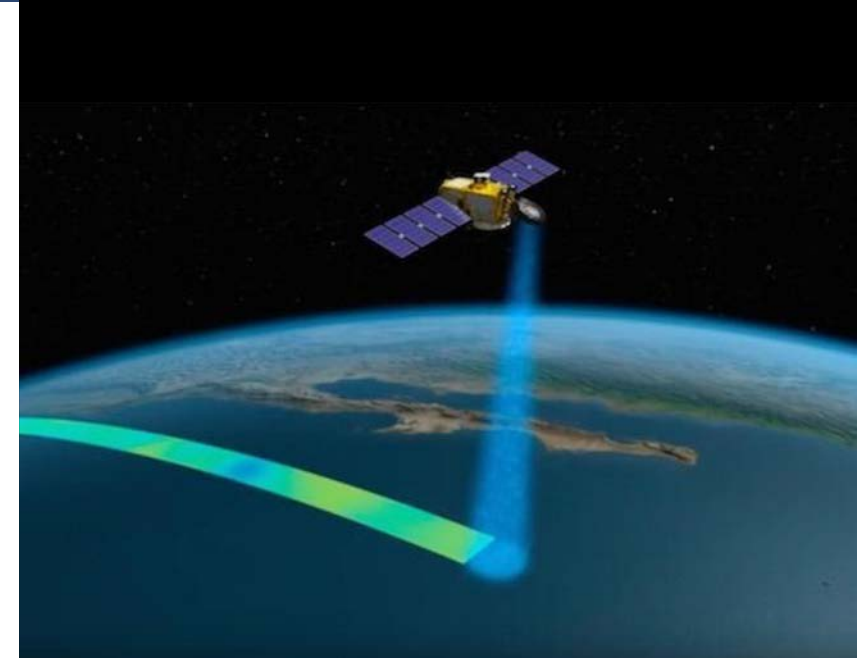
*Only a small portion of the ocean has been mapped with direct measurement.
~ 50% of the world's coastal waters remain unsurveyed*

As of GEBCO 2014 - only 6% of our global goal is met

What can depth information be used for?



- Nautical charts
- Oil and gas exploration
- Safety and storm surge/tsunami inundation models
- Ecosystem identification and management
- Emergency response
- Satellite verification models
- Coastal and Marine Spatial Planning
- Coastal Hazard Assessment
- Ocean Exploration
- Coastal Change Analysis
- Sea Level Rise Mitigation
- New Energy Siting
- Marine heritage



The UN Decade of Ocean Science for Sustainable Development (2021-2030)



CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

14 LIFE BELOW WATER

A Vision for the Decade

Develop scientific knowledge, build infrastructure and foster partnerships for a sustainable and healthy ocean



Seabed 2030 Regional Data Assembly



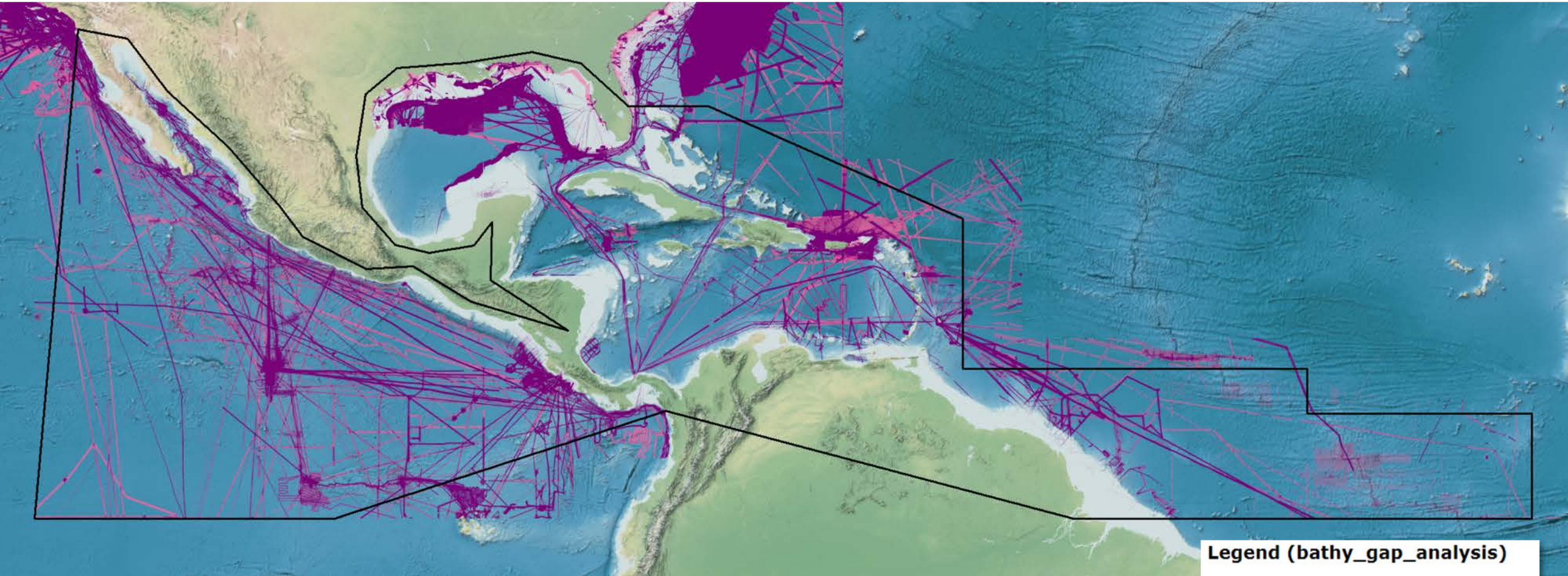
Seabed 2030: Regional Centers



- Coordinate with stakeholders
- Build upon ongoing regional efforts including IBCs
- Develop mechanisms for attribution
- Assemble regional data products

North Pacific-Arctic Ocean South and West Pacific Ocean
Atlantic-Indian Ocean Southern Ocean

NOAA Gap Analysis – MACHC

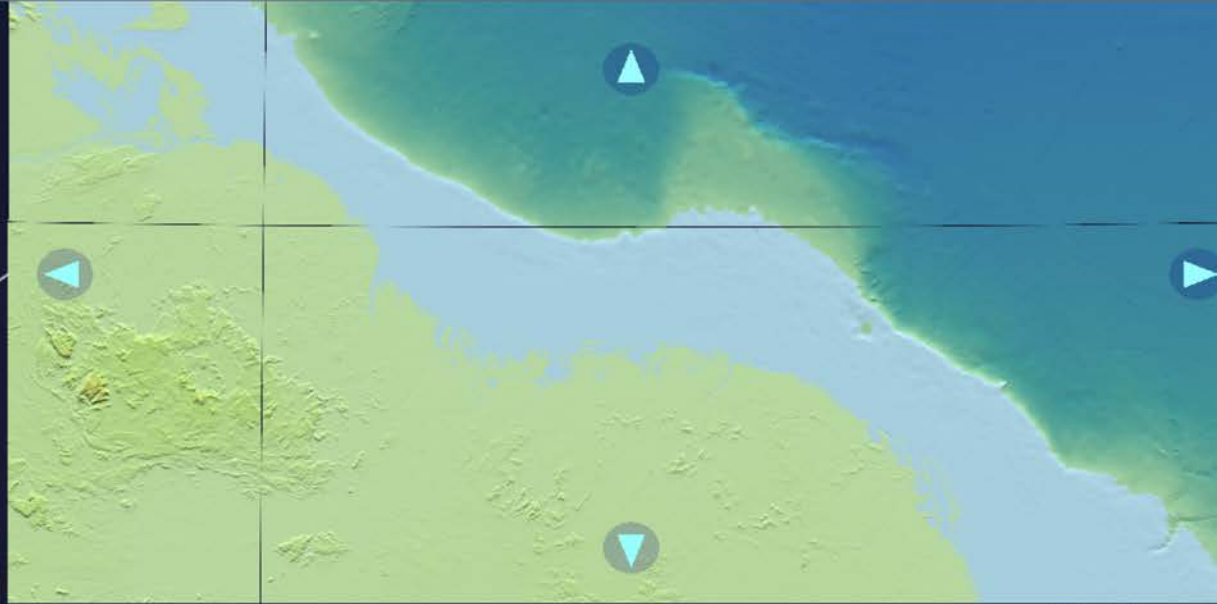
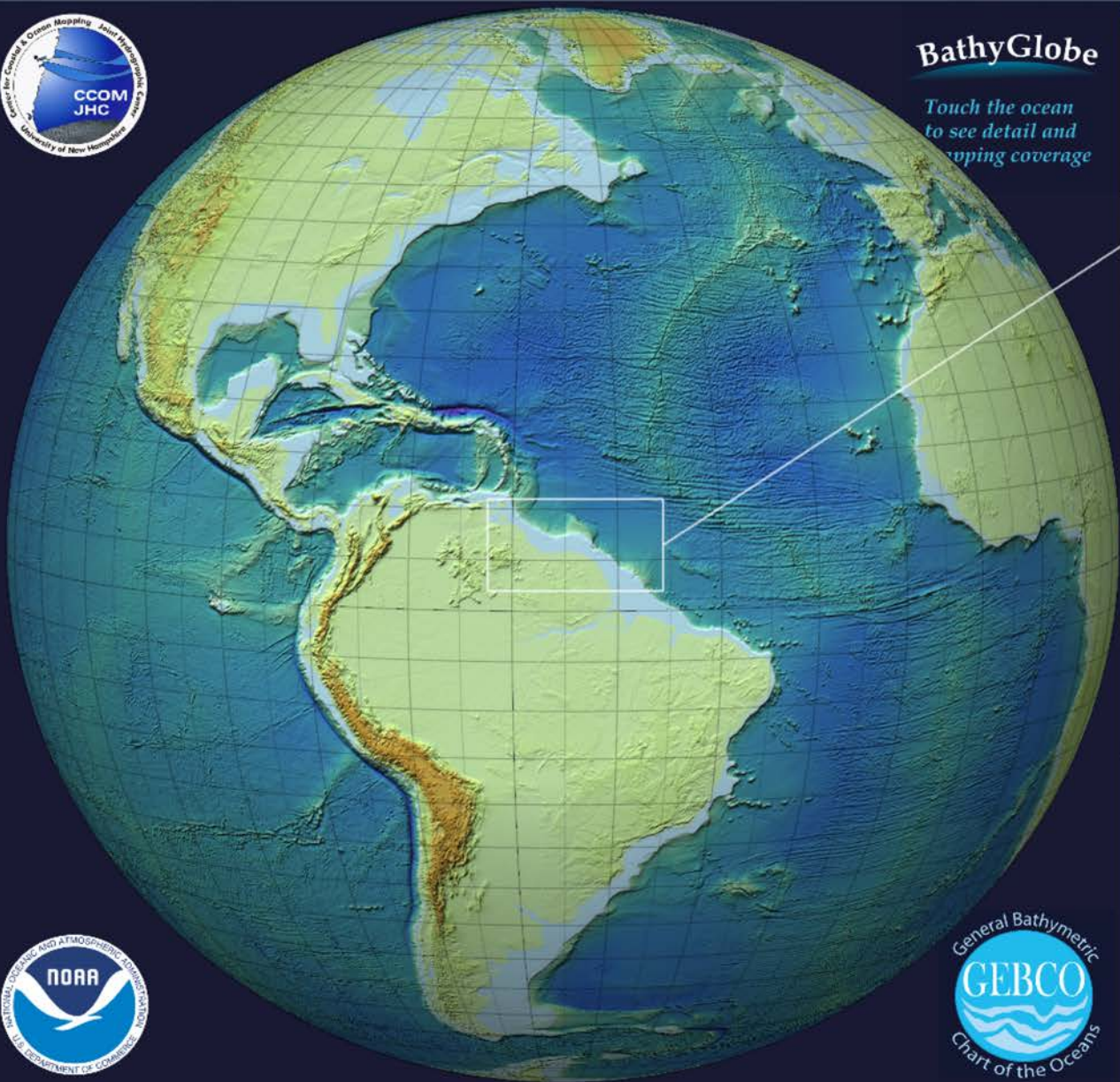
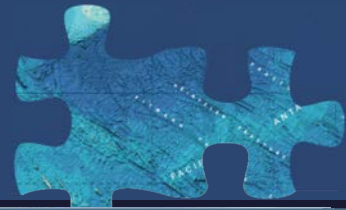


Legend (bathy_gap_analysis)

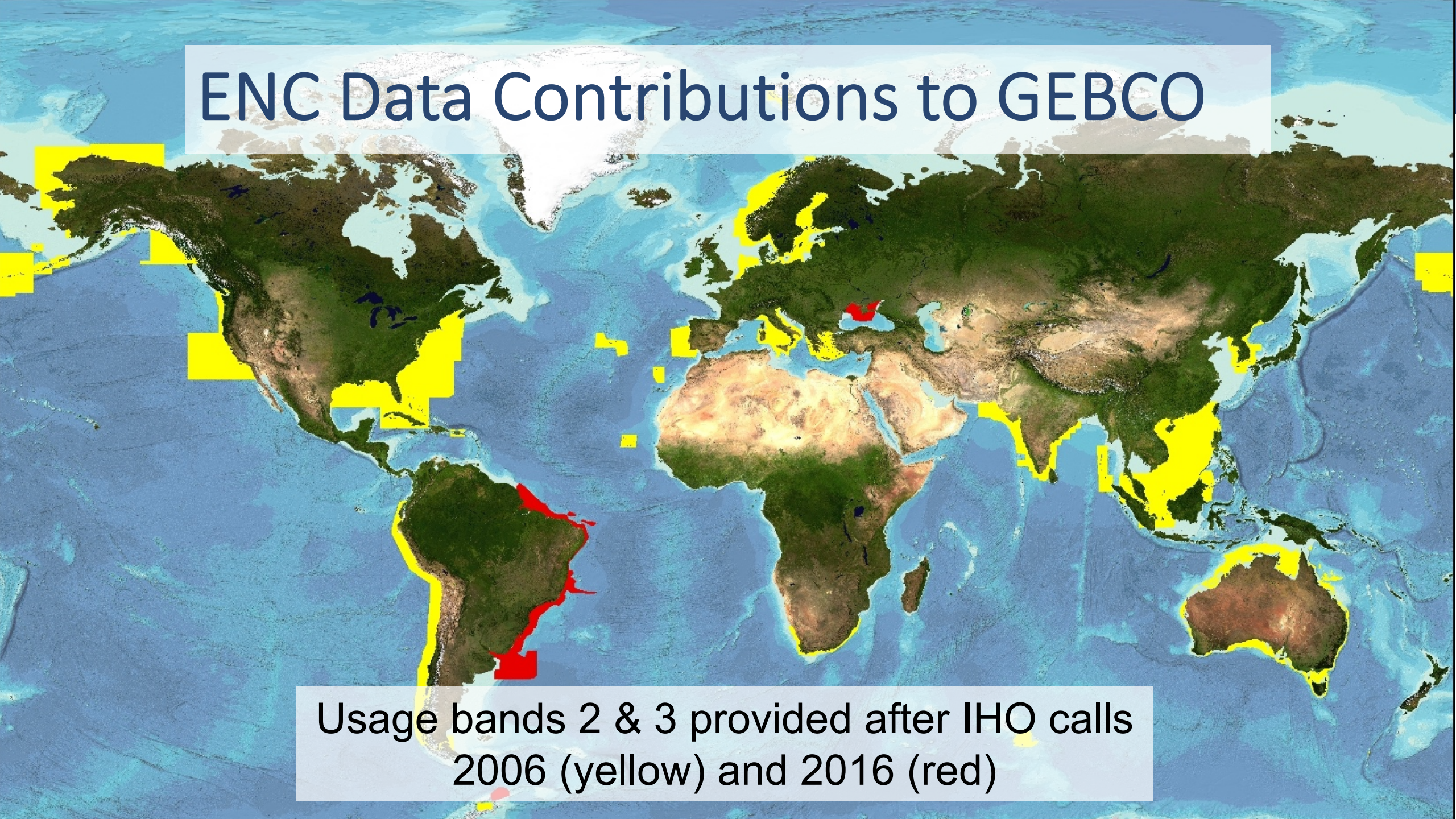
- 3 or more soundings per 100m cell (0)
- 3
- 1-2 soundings per 100m cell (1)
- 1



GEBCO 2014 Source Data MACHC Area



ENC Data Contributions to GEBCO



Usage bands 2 & 3 provided after IHO calls
2006 (yellow) and 2016 (red)

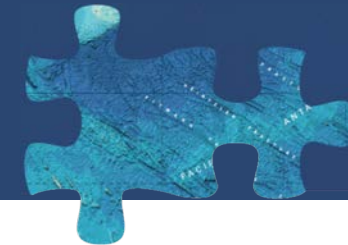
Coordinating with IBCs



- Seabed 2030 Atlantic/Indian Oceans RDACC
 - IBC of the Caribbean Sea & Gulf of Mexico (IBCCA)
 - IBC of the Central Eastern Atlantic (IBCEA)
 - IBC of the Mediterranean (IBCM)
 - IBC of the Western Indian Ocean (IBCWIO)
- Seabed 2030 South & West Pacific RDACC
 - IBC of the South Eastern Pacific (IBCSEP)
- Seabed 2030 Arctic/North Pacific RDACC
 - IBC of the Arctic Ocean (IBCAO)
 - IBC of the Caribbean Sea & Gulf of Mexico (IBCCA)
- Seabed 2030 Southern Ocean RDACC
 - IBC of the Southern Ocean (IBCSO)



Seabed 2030 Status & Next Steps



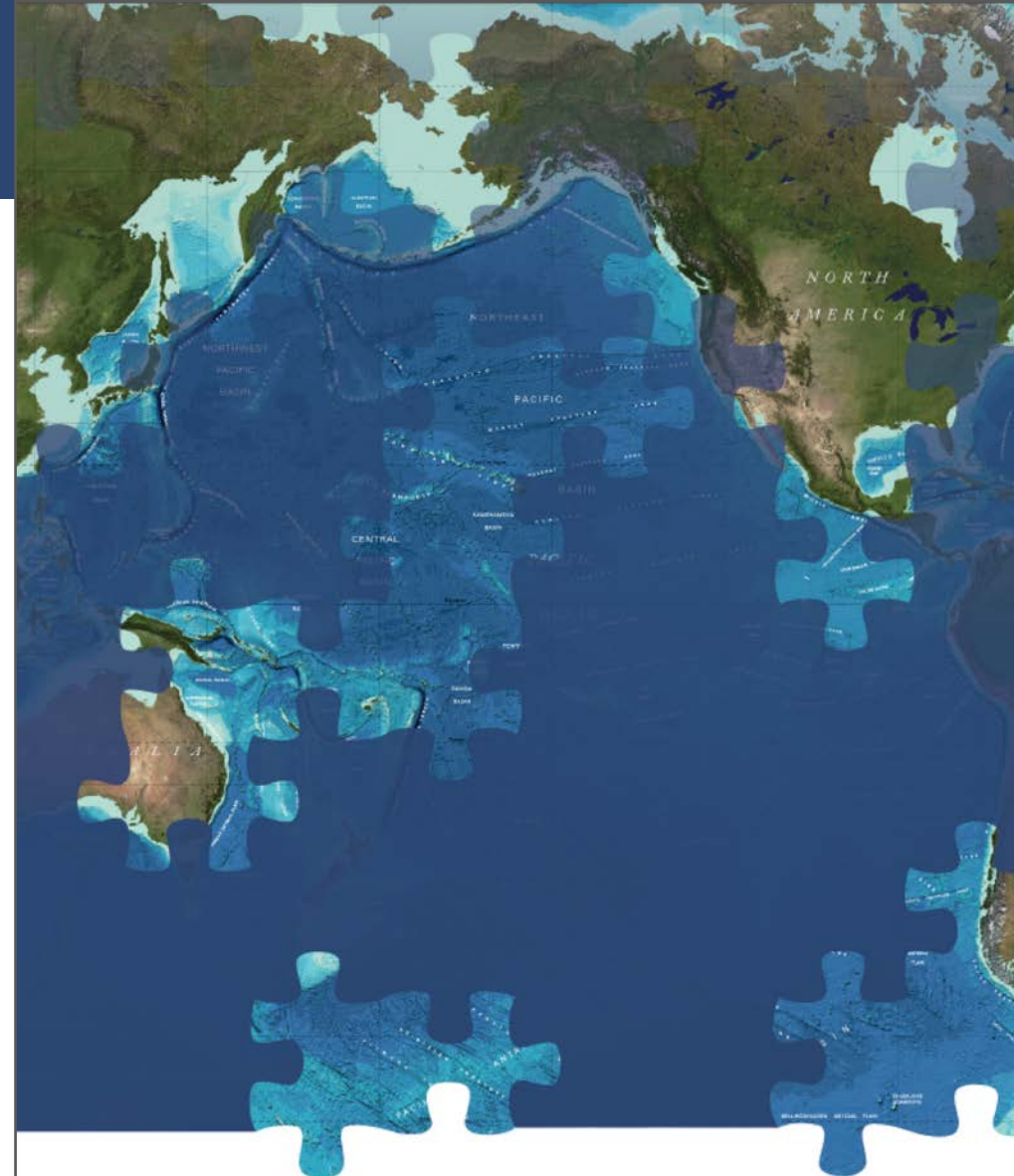
- ✓ Data centers established 2018
- ✓ Initial regional data products generated and passed to Global Center
- New GEBCO grid to be released at end of 2018
- Establishing connections with regional stakeholders



How to participate

- Contribute information about existing data coverage
- Contribute data
 - Gridded data products
 - Points from ENC's
- Share information about future mapping plans
- Participate in 2019 Regional Mapping Meetings & GEBCO Meetings

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The Nippon Foundation – GEBCO – Seabed 2030
Roadmap for Future Ocean Floor Mapping



Thank you!

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<https://seabed2030.gebco.net>